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PIPER'S

CHRYSANTHEMUMS

CARNATIONS

and

Plant Novelties of Distinction



PIPER'S

LIVINGSTON, NEW JERSEY

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TO OUR CLIENTS

It is with much pleasure that we present our Catalogue containing a selection of CHRYSANTHEMUMS and PLANT NOVELTIES, suitable for the Amateur and the Connoisseur.

We have abundant evidence that our business has grown through the recommendations of satisfied customers and we will endeavor to justify this valuable form of advertising.

We have available Carnations, Poinsettias, Roses and other greenhouse plants. ONLY THE BEST STOCKS GROWN ARE SOLD BY US.

We shall be pleased at all times to furnish any information regarding the culture of CHRYSANTHEMUMS and OTHER STOCK known to us.

May we at this time, thank our many clients for their patronage.

TERMS OF SALE

Delivery will be made on all orders at the proper time of planting unless a specified date is mentioned when ordering.

We endeavor to furnish plants true to name and have them satisfactory for the customer but give no guaranty for failure from causes over which we have no control and assume no responsibility after stock is delivered in good condition. If the customer does not wish to accept the shipment under these conditions, we ask that it be returned to us immediately.

PIPER'S

LIVINGSTON, NEW JERSEY

INTRODUCTIONS FOR 1939

CHRYSANTHEMUMS

NEW VARIETIES

On this and following pages you will find the season's approved novelties. They are all from well known dependable raisers. We have personally acquainted ourselves with all these varieties; and if given a chance, they will be found a distinct advance in American Chrysanthemums.

NOVELTY SECTION

BRONZE LODGE (Sport). Identical in every respect to the parent, except color. Matures at the same time—October 1st.

COL. F. M. ALGER. A large flowered standard variety producing closely incurved blooms about 7 in. across. Color clear Pernet yellow the inside petals shading to golden yellow. A clean vigorous grower attaining a height of about 5 feet. Excellent stem and foliage. Produces a high percentage of perfect blooms from almost any bud but we recommend second crown or terminal buds taken the first part of September. The variety matures November 5th to 10th and does not shatter. Because of its easy growing habit and its high percentage of good blooms which it produces this variety will become a favorite with growers desiring a good early mid-season yellow.

DECEMBER BEAUTY, Imp. A pure white sport from December Beauty. We believe this variety will be well received by those who are interested in late mums. It combines the qualities of lateness, large size, good stem, and purity of color.

PURITAN. Snow white. Its glistening white appearance suggested the name. We consider PURITAN one of the most outstanding among the early flowering varieties. A free grower—Maturing October 15. Reflexing bloom about 6 inches across.

MRS. ANDREW WILSON. (Pompom Anemone) A most outstanding new type of Pompom Anemone. Its well branched individual flowers measuring 2 inches across. The centre pompom of golden yellow is supported by guard petals of a lovely shade of Orchid Pink.

Judging from the tremendous interest shown in this new Chrysanthemum at the recent Flower Shows, we believe it will become very popular for table decoration and "pot plants." Matures October 30th.

FREIDA (Anemone). A lovely shade of Orchid Pink with Golden Yellow centre. The Individual flowers measure 4 to 5 inches across. Useful for sprays and when disbudded, its well formed flowers are very much admired.

HOPE ENGLE. Late, rich bronze small anemone. Extremely productive with excellent growing habit. Matures about November 25 and will keep until Christmas. Medium height. Good only when grown as natural sprays. This should prove a much-needed late variety.

CALVACADE. A late flowering pompon which possesses nearly every good characteristic sought by chrysanthemum growers. Individual blooms measuring about 2½ inches across are freely produced on rigid and well-formed sprays. The full rounded flowers possess an unusual crisp substance. The variety grows and breaks freely giving excellent production of many good-sized and saleable sprays. It attains a height of from 38 to 42 inches with small but thick and leathery foliage to the bottom of the plant, making an ideal variety for pot culture as well as for cutting. The color of Calvacade is a bright Mandarin red with each cupped petal showing a golden bronze reverse, the whole making a pleasing combination. Matures from December 10th to 15th or in our locality about three weeks later than the popular variety cordova.

CATHERINE (Pompon) A fine bronze commercial pompon. Blooms November 20th, to Thanksgiving. Can be had in December under electric light treatment. Right color for this time of year, like Legal Tender.

HARMONY. Compared to the variety Glow, introduced recently, it is deeper in color—a red orange with soft bronze shading— one of those glorious blends which commands immediate attention. Flowering about November 25th, it just precedes Glow. An excellent producer, it attains a height of 2½-3 feet.

PEGGY POESCH. Brilliant apricot large pompon, carried on large airy sprays. Grows very strong on stiff stems. Good producer. A real worth while variety to add to your list. Matures November 10th.
Won C. S. A. Silver Seedling Medal at Cincinnati Show 1937.

PINK LASSIE. A quality pink to follow Mrs. Morgan G. Buckley, maturing about November 15. Perfectly formed flower 2½ inches across. Clear bright pink with lavender shading. Vigorous growth, branching habit, and unusually good keeping qualities. Height 3 feet.

RED PRINCETON. A sport from Princeton and like in every respect excepting color.
The color is of a bright reddish bronze which, combined with the many merits of Princeton, should make this variety popular.

ROYAL CRIMSON. A large decorative pompon 3 inches across, an intensely rich crimson color. A better than average producer—bunching nicely—strong, sturdy growth 3 feet or more. Flowering December 1st, it makes an excellent follow-up variety for Mrs. Mary Hooker, introduced in 1937, and is actually superior in quality.

\$.50 per plant; \$5.00 per dozen

Select List of Exhibition Varieties

Name and Description	Height	Select Bud	Matures
Dr. J. M. Inglis. Wine purple amaranth with silver reverse.....	Tall	Aug. 25	Nov. 1
Golden Majestic. Bright yellow.....	Medium	Aug. 20	Oct. 25-Nov. 1
Grace Sturgis. Wine red with pinkish-silver reverse.....	Tall	Aug. 25	Oct. 20
J. R. Booth. Yellow.....	Medium	Aug. 15	Nov. 1
La France. Purple	Medium	Aug. 15	Oct. 28
Louisa Pockett. White	Medium	Aug. 10	Nov. 1-15
Majestic. Clear, shiny amber bronze	Medium	Aug. 20	Oct. 25
Marian H. Uffinger. Bronzy crimson with a gold reverse.....	Medium	Aug. 20-25	Nov. 1
Mrs. G. G. Mason. Blood red with golden reverse.....	Medium	Aug. 20	Oct. 25-Nov. 1
Mrs. H. S. Firestone. Chamois buff.....	Short	Aug. 25	Nov. 1
Mrs. Jules Leeds. Blood red.....	Short	Aug. 25	Nov. 10
Nagirroc. Golden bronze.	Medium	Aug. 15	Nov. 1
Pocketts Crimson. Crimson with golden reverse	Short	Aug. 25	Oct. 25
Red Majestic. Bronzy red	Medium	Aug. 25	Nov. 1
Rosanda. Old rose	Tall	Sept. 10	Nov. 1
Thos. W. Pockett. Pink	Medium	Aug. 10	Nov. 1-15
Turner, Bronze. Light Bronze	Medium	Aug. 25	Nov. 5
Turner, Pink. (Mrs. Leslie Davis). Pink.....	Medium	Aug. 25	Nov. 5
Turner, William. White	Medium	Aug. 25	Nov. 5
Turner, Yellow. Yellow	Medium	Aug. 25	Nov. 5
Vermont. Pink	Tall	Aug. 10	Nov. 1-15
W. H. Waite. Bronze	Short	Aug. 15	Nov. 5
W. H. Waite, Imp. Red	Short	Aug. 15	Nov. 5
William Hazelhurst. Pink	Short	Aug. 25	Oct. 29
Yellow Pockett. Yellow	Medium	Aug. 10	Nov. 1-15

\$2.50 per dozen, \$15.00 per 100.

Odd Formed-Feathery and Threadlike-Varieties

Name and Description	Height	Selected Bud	Matures
Benton. Bronze and deep red tips with green center.....	Medium	Ter. Bud	Nov. 5-10
Japanese Maiden. Yellow. Medium tube.....	Medium	Ter. Bud	Nov. 25
Miss Gena Harwood. Rosy mauve. Sport from Rayonnante.....	Medium	Ter. Bud	Nov. 20
Ohkwan. Yellow. Fine tube petals.....	Medium	Ter. Bud	Nov. 1
Patricia Grace. Shell pink	Medium	Ter. Bud	Nov. 5
Peggy Ann Hoover. Lavender	Short	Ter. Bud	Nov. 5
Pride of Tokyo. Creamy pink. A novelty with odd tubular petals	Tall	Aug. 25	Nov. 10
Rayonnante. Pale rose pink. Long cordlike petals.....	Medium	Ter. Bud	Nov. 1
Sam Caswell. Bright rose. Feathery type.....	Medium	Ter. Bud	Oct. 25
The Dean. Pure white. Light green center.....	Medium	Ter. Bud	Nov. 1
Unique. Rich wine red	Tall	Ter. Bud	Dec.
Yellow Taggart. Yellow quilled petals covered with hair.....	Medium	Ter. Bud	Nov. 1
Yomel. Golden tube petals with red spoon-end tips.....	Medium	Ter. Bud	Nov. 10

Plants \$2.50 per dozen; \$15.00 per 100

Large Flowering Commercial Varieties

Name and Description	Height	Selected Bud	Matures
Ambassador. White	Medium	Ter. Bud	Oct. 16-20
Anna Kaskas. Golden bronze	Tall	Sept. 5-10	Nov. 1- 5
Apricot May Wallace. Apricot	Tall	Ter. Bud	Nov. 7-15
Apricot Queen. Orange bronze	Medium	Sept. 5	Oct. 25
Betsy Ross. White	Tall	Aug. 25	Nov. 5
Bronze Gem. Bronze	Tall	Ter. Bud	Nov. 20
Camilla. White	Tall	Aug. 25	Oct. 18
Celestra. Yellow	Medium	Ter. Bud	Oct. 10
Chadwick, Bronze. Bronze	Medium	Ter. Bud	Thanks.
Chadwick, Golden. Yellow	Medium	Ter. Bud	Thanks.
Chadwick, Pink. Pink	Medium	Ter. Bud	Thanks.
Chadwick, White. White	Medium	Ter. Bud	Thanks.
Chattanooga. White	Medium	Sept. 20	Nov. 28
Clara B. Ford. Yellow	Medium	Sept. 20	Nov. 20
Columbus Dispatch. Yellow. Large bloom	Medium	Sept. 1	Nov. 15
December Beauty. White, tinged with pink	Medium	Oct. 1-10	Dec. 1
Distinction. Pink	Medium	Ter. Bud	Thanks.
Dr. Enguehard. Rose pink	Medium	Sept. 5	Thanks.
Floyd Gibbons. Salmon pink with buff reverse	Short	Sept. 15	Nov. 8
Friendly Call. Yellow	Medium	Ter. Bud	Nov. 25-Dec. 10
Friendly Rival. Golden yellow	Medium	Sept. 10	Thanks.
Garnet King. Red	Short	Sept 20	Nov. 20-30
Gladys Pearson. Bronze	Medium	Sept. 30	Nov. 20-30
Glenview. Bronze	Short	Sept. 10	Nov. 24
Gold Lode. Yellow	Medium	Aug. 25	Oct. 1
Golden Glow, Imp. Yellow	Medium	July 10	Sept. 1
Golden Mrs. Ross. Golden yellow. (Improved Nellie T. Ross)....	Tall	Early Oct.	Nov. 28

Large Flowering Commercial Varieties - Cont'd

Name and Description	Height	Selected Bud	Matures
Golden Pearson. Yellow. Sport of Gladys Pearson	Medium	Sept. 30	Thanks.
Golden Tints. Bright yellow	Short	Aug. 5-25	Oct. 10
Golden Wave. Yellow	Short	Sept 5	Oct. 20
Governor Green. Crimson, with old gold reverse	Short	Aug. 15	Oct. 15
Harvard. Crimson	Medium	Sept. 30	Nov. 30
Hilda Bergen. Bronze	Short	Aug. 25	Oct. 25
Justrite. Pink	Short	Ter. Bud	Oct. 15
J. W. Prince. Pink. (Improved Chieftain)	Short	Aug. 30	Nov. 1
Lemon Queen. Yellow	Medium	Ter. Bud	Thanks.
Leroy Zang. Yellow. Sport of Golden Pearson	Medium	Sept. 30	Thanks.
Lustre. Pink	Short	Aug. 25	Oct. 8
Major Bonnaffon. Yellow	Short	Sept. 10	Nov. 20
Major Edward Bowes. Pink	Medium	Aug. 30	Oct. 16
Marie de Petris. Yellow	Short	Sept. 15	Nov. 25
Mefo. White	Medium	Sept. 15	Nov. 20
Minewa. Golden bronze	Medium	Aug. 10	Oct. 15
Mohawk Chief. Crimson	Medium	Oct. 1	Nov. 30
Monument. White	Medium	Sept. 10	Nov. 5-15
Mrs. A. J. Stahelin. Bronze with reverse petals yellow	Medium	Ter. Bud	Nov. 15
Mrs. David F. Roy. Crimson with bronze reverse	Short	Sept. 15	Nov. 15
Mrs. H. E. Kidder. Bright yellow	Medium	Aug. 25	Oct. 25
Orchid Queen. Orchid pink.	Tall	Ter. Bud	Nov. 15
Peter John. Light pink. Sport of Thanksgiving Pink	Short	Sept. 15	Thanks.
Pink Beauty. Pink	Short	Ter. Bud	Oct. 20
Pink Chief. Pink	Tall	Ter. Bud	Oct. 12
R. M. Calkins. Golden yellow	Medium	Sept. 20	Nov. 25-30
Rose Marie. Pink	Tall	Aug. 5	Oct. 1
Secretary Nehrling. Bright yellow	Medium	Aug. 15-20	Nov. 15-20
Silver Dawn. White	Tall	Aug. 25	Oct. 18-20
Silver Sheen. White	Medium	Aug. 30	Oct. 20
Smith's Early White. White.....	Tall	Aug. 10	Oct. 2
Smith's Late White. White	Short	Sept. 30	Dec. 15
Sunbeam. Bright yellow	Medium	Sept. 20	Thanks.
Sun Gold. Yellow	Medium	Sept. 30	Thanks.
Tekonsha. Bronze	Medium	Sept. 10	Thanks.
Thanksgiving Pink. Dark pink	Short.	Sept. 15	Thanks.
Tints of Gold. Bronze	Medium	Aug. 15	Oct. 10
Tobon's Late Yellow. Yellow. Sport of Smith's Late White	Short	Sept. 30	Dec. 15
White Chief. White	Short	Ter. Bud	Oct. 18
White Chieftain. White	Short	Aug. 31	Nov. 1
White Distinction. White	Medium	Ter. Bud	Thanks.
Yellow Chattanooga. Light yellow	Medium	Sept. 20	Nov. 28

\$2.00 per dozen; \$15.00 per 100

Pompons – Large Flowering and Button Types

Under the heading of type, we attempt to classify pompons into large pompons and button types. The distinction is largely one of size, though the latter classification contains more of the true, compact, rounded type than the former.

Name and Description	Height	Type	Matures
*Acto. Rose pink	Medium	L. Pompon	Nov. 1
Agate. Yellow with red eye	Short	Button	Oct. 25
Alecia. Bronze	Medium	L. Pompon	Oct. 30
†Alice. Pink	Medium	L. Pompon	Nov. 15
Annette. Pink	Medium	S. Button	Oct. 30
Autumn Glints. Yellow with crimson center	Medium	L. Pompon	Nov. 1
Avalon. Orange bronze	Medium	L. Pompon	Thanks.
Azora. Light pink	Tall	L. Pompon	Cct. 25
†Baby. Yellow	Short	S. Button	Nov. 10
†*Ball of Gold. Yellow	Medium	L. Pompon	Nov. 20
Betty Watkins. Bronzy Yellow	Medium	L. Pompon	Thanks.
Big Baby. Yellow	Medium	Button	Thanks.
Bobbie. Creamy white	Medium	L. Pompon	Nov. 15-20
Bokhara. Bronze	Medium	L. Pompon	Oct. 25
†Bonribell. Orange buff	Short	L. Pompon	Oct. 15
Bonnie Maid. Pink	Medium	Button	Oct. 18
†Bright Eyes. Bluish white with apricot eye	Short	Button	Nov. 1
Bristolite. Bronze	Medium	L. Pompon	Thanks.
*Bronze Acto. Bronze. Sport of Acto	Medium	L. Pompon	Nov. 1
Bronze Beauty. Bronze	Medium	L. Pompon	Thanks.
Bronze Ermalinda. Dark bronze	Medium	L. Pompon	Oct. 25
Bronze Queen. Dark bronze.	Tall	Button	Oct. 25
Bronze Usona. Bronze	Medium	L. Pompon	Thanks.
Buttercup. Yellow	Tall	L. Pompon	Dec. 5
Campfire. Red	Tall	L. Pompon	Nov. 20
Capt. Cook. Pink	Tall	L. Pompon	Oct. 20
Chicago Pearl. White	Medium	L. Pompon	Nov. 15
Christmas Cheer. Deep yellow	Medium	L. Pompon	Dec. 15
Claremont. Bronze	Medium	L. Pompon	Thanks.
Clista. Yellow	Short	S. Button	Nov. 10
Clorinda. Bronze	Medium	L. Pompon	Thanks.
Cora Peck Buhl. Yellow	Tall	L. Pompon	Oct. 25
Cordova. White	Medium	L. Pompon	Thanks.
*Crystal White. White	Tall	L. Pompon	Nov. 10
Dainty Maid. White, tinged with pink	Medium	S. Button	Nov. 1
Dorothy Nehrling. Deep rose pink	Medium	Button	Nov. 15-20
Dorothy Turner, Bronze	Medium	L. Pompon	Thanks.
†Dotson. Old rose	Short	Button	Oct. 20
Dr. W. R. Pettit. Pink with salmon bronze center	Medium	L. Pompon	Oct. 30
Earliwhite, White	Medium	L. Pompon	Oct. 10
*Edith Newberry. Orange rust	Tall	L. Pompon	Nov. 5
†Elizabeth Peterson. Orange crimson	Medium	L. Pompon	Oct. 23
Elora. Pearly white	Tall	L. Pompon	Nov. 1-10
Ermalinda. Old rose	Medium	L. Pompon	Oct. 25
Fez. Chestnut-crimson	Medium	Button	Nov. 10
*Fire Ball. Bright crimson	Tall	L. Pompon	Nov. 2
Fire Bird. Red bronze	Medium	L. Pompon	Oct. 25
†Frank Wilcox, Jr. Bronze	Short	Button	Thanks.
Geraldine. Lemon yellow	Medium	Button	Dec. 1
Glow. Orange. Reddish orange at center	Tall	L. Pompon	Thanks.
*Gold Coin. Yellow	Medium	L. Pompon	Dec. 1
Gold Drop. Old gold	Medium	L. Pompon	Nov. 1
Gold Finch. Yellow	Medium	L. Pompon	Oct. 20
Gold Tips. Bronze and gold	Medium	L. Pompon	Thanks.
*Golden Fairy. Yellow	Medium	L. Pompon	Oct. 20-30
Golden Fleece. Yellow	Medium	L. Pompon	Nov. 25
†Golden Fringe. Yellow	Short	Button	Nov. 20
*Golden Herald. Deep golden yellow	Medium	L. Pompon	Oct. 10-15

Pompons - Large Flowering and Button Types - Cont'd

Name and Description	Height	Type	Matures
Golden Nymph. Bronze, with reverse of petals gold	Medium	S. Button	Dec. 10
Golden Sceptre. Yellow	Tall	L. Button	Nov. 25
Golden Spray. Yellow	Medium	L. Pompon	Oct. 15
Golden Varsity. Yellow. Sport of Varsity, deeper shade	Short	S. Button	Nov. 10
†Governor Lake. Reddish bronze	Short	L. Pompon	Thanks.
Grenadier. Red	Medium	L. Pompon	Nov. 10
Greta. White	Medium	L. Pompon	Oct. 20
Hasegawa Gold. Yellow	Medium	L. Pompon	Dec. 1
High Lights. White with salmon eye	Tall	Button	Nov. 3
Ida, Imp. Yellow	Medium	L. Pompon	Oct. 10
†Irene. White	Short	Button	Oct. 15-20
*Irene Rich. Pink	Medium	L. Pompon	Nov. 1
†Jewel. Bright pink	Short	L. Button	Oct. 1-15
Jean. Bronzy orange	Medium	L. Pompon	Nov. 20
Justine Miller. Reddish bronze	Medium	Button	Nov. 20-25
Legal Tender. Bronze and gold	Medium	L. Pompon	Nov. 20
Leticia. White with pink center	Tall	L. Button	Oct. 15
Lilac. Pink	Tall	L. Pompon	Oct. 15
*Lillian Doty. Shell pink	Medium	L. Pompon	Nov. 1
†Lois. Golden yellow	Medium	Button	Nov. 18
Louise Davenport. Bronze	Medium	Button	Nov. 10
Lucinda. Deep pink	Tall	L. Pompon	Nov. 12-20
Magatha. White with dark eye	Medium	L. Pompon	Nov. 10
Marcella. Light pink	Medium	L. Button	Nov. 25 & Later
Mar'lyn. Orange tan	Medium	L. Pompon	Oct. 22
*Masaka. Yellow	Medium	L. Pompon	Oct. 20
*Masterpiece. Tourmaline pink	Medium	L. Pompon	Nov. 15
Modena. Yellow	Medium	L. Button	Nov. 30
Monadel. Bronze. Sport of Pink Dot	Medium	L. Pompon	Oct. 25
†Mrs. Beu. Bronze	Short	L. Pompon	Thanks.
Mrs. Mary Hooker. Red	Tall	L. Pompon	Nov. 15
Mrs. N. G. Moore. White. Sport of Olivia	Medium	L. Pompon	Dec. 1-10
*Muskoka. Bronze	Tall	L. Pompon	Nov. 10
My Pride. Pink	Tall	L. Pompon	Oct. 20
Nellie Kleris. Lavender pink	Tall	L. Pompon	Oct. 25
†November Bronze. Orange bronze	Medium	L. Pompon	Nov. 15
Nubian. Bronzy red	Tall	L. Pompon	Oct. 15-20
†Onargo. Light bronze	Medium	L. Button	Nov. 1
Ouray. Dark scarlet	Medium	L. Pompon	Oct. 25
Pagosa. Dark pink	Medium	L. Pompon	Dec. 5
†Patsy Dowd. Red	Short	Button	Nov. 5
Pauline Wilcox. Bronze	Medium	L. Pompon	Nov. 5
Pink Dot. White, with pink center	Medium	L. Pompon	Oct. 25
Princeton. Golden yellow suffused with orange	Medium	L. Pompon	Nov. 15
†Red Beu. Reddish bronze	Short	L. Pompon	Thanks.
Robin Hood. Rich deep red	Medium	Button	Early Nov.
†Rodell Imp. Yellow. Sport of Rodell producing larger flowers	Short	Button	Oct. 20
Roman Bronze. Bronze. Sport of Capt. Cook	Tall	L. Pompon	Oct. 20
*Romola. Soft pink	Medium	L. Pompon	Nov. 5
*Rose Charm. Rose pink	Medium	L. Pompon	Nov. 1
Roselea. Pink	Medium	L. Pompon	Dec. 1
Rowenna. Bronze	Tall	L. Pompon	Thanks.
*Sea Gull. White	Medium	L. Pompon	Nov. 1
*Silver Ball. White	Medium	L. Pompon	Oct. 12
Silver Bells. White	Medium	Button	Oct. 15
Silver Star. White	Tall	L. Pompon	Dec. 5
Silver Tips. Bright pink with silver tips	Medium	L. Pompon	Nov. 10
*Snow Bird. White	Medium	L. Pompon	Nov. 15
Snow Cloud. White	Medium	L. Pompon	Oct. 15
Spanish Gold. Yellow	Medium	L. Pompon	Nov. 5
Stardust. Yellow	Medium	L. Pompon	Dec. 1
Suntan. Bronze	Medium	L. Pompon	Oct. 25
Thanksgiving Gem. Orange bronze	Medium	Button	Thanks.

Pompons - Large Flowering and Button Types - Cont'd

Name and Description	Height	Type	Matures
*Thyra. Dark pink	Medium	L. Pompon	Nov. 1
Tom Pearson. Deep gold	Tall	L. Pompon	Nov. 15
Tonquin. Rose color	Medium	L. Pompon	Dec. 10
Topaz. Chestnut mahogany bronze	Medium	L. Pompon	Thanks. & Later
Touchdown. White with yellow cast at center	Medium	L. Pompon	Oct. 25
Usona. Pink	Medium	L. Pompon	Thanks.
Uvalda. White	Medium	L. Pompon	Oct. 10
*Vera Victoria. Yellow	Medium	L. Pompon	Nov. 1
Western Beauty. Pink	Short	L. Pompon	Nov. 15-25
*White Doty. White	Medium	L. Pompon	Nov. 1
White Ermalinda. White	Medium	L. Pompon	Oct. 25
†White Jewell. White suffused with pink	Short	L. Button	Oct. 1-15
Yellow Dot. (Jablonsky). Yellow. Sport of Pink Dot	Medium	L. Pompon	Oct. 25
*Yellow Doty. Yellow	Medium	L. Pompon	Nov. 1
†Yellow Fellow. Yellow	Medium	L. Pompon	Nov. 15
Yellow New York. Yellow. Sport of New York	Medium	Button	Nov. 15
Yellow Silver Star. Yellow. Sport of Silver Star	Tall	L. Pompon	Dec. 10
†Yuletide, White. White	Short	L. Pompon	Dec. 1
†Yuletide, Yellow. Yellow	Short	L. Pompon	Dec. 1
†*Yuvawn. Yellow	Medium	L. Pompon	Nov. 25
Yvonne. Red	Short	S. Button	Oct. 30

*—Good disbudded.

†—Good as pot plants.

\$2.00 per dozen; \$15.00 per 100

Anemone Flowered Varieties

Name and Description	Height	Matures
*Adenlair. Shell pink	Medium	Nov. 15-20
*Admiration. Orchid with lighter reverse	Medium	Oct. 28
*Aloysia. Bright yellow with slight red shading on reverse	Medium	Nov. 1
†*Beautiful Lady. Bright pink petals with creamy white cushion	Short	Nov. 20
*Berneita. Shell pink petals. White cushion	Medium	Nov. 1
*Betty Rose. Pink, both petals and cushion	Medium	Oct. 25-Nov. 1.
*Bizarre. Purplish rose petals tipped with gold. Bronzy cushion	Medium	Nov. 10
*Blanche. White	Medium	Oct. 27
*Bronze Groff Von Oriole. Bronze	Medium	Nov. 15-20
*Bronze Norma. Bronze. Sport of Norma	Medium	Nov. 10-Dec.
*Buff Queen. Bronzy buff	Medium	Nov. 1
*Calypso. Orange suffused with pink	Medium	Oct. 28
*Captivation. Mahogany red. (Exhibition)	Tall	Nov. 10
*China Rose. Dragon's blood red	Medium	Nov. 10
Citrus Queen. Lemon orange	Medium	Dec. 1
*Coral Blaze. Orange bronze	Medium	Nov. 25
†*Crimson Glow. Crimson maroon	Medium	Nov. 25-30
*Dark Pink Norma. Dark pink	Medium	Nov. 10-Dec.
*Espy's Dark Pink Supreme. Sport of Pink Supreme	Tall	Nov. 30
*Espy's White Supreme. White	Tall	Nov. 30
*Estrelita. Bronze throughout, with a full regular cushion	Medium	Nov. 15 & Later
*Eva Le Gallienne. Crushed raspberry with center of gold	Medium	Oct. 25
*Freida. Pink	Medium	Nov. 15
Garnet. Red	Tall	Nov. 20-25
Garza Supreme. White	Short	Dec.
Golden Lida Thomas. Yellow	Medium	Thanks.
†*Graceland. Pure white, with yellow center	Short	Oct. 25
*John Shields. Yellow	Medium	Nov. 10
†*Laelia. Red pink	Short	Nov. 1
†Margo. Pinkish violet outer petals, with high, round yellow cushion.....	Short	Nov. 5
*Marietta. Soft pink with very full cushion	Medium	Oct. 20
*Maritza. Bright yellow with full highly rounded cushion	Medium	Thanks.
*Milton. Velvet red with low yellow center	Tall	Nov. 30
*Mrs. J. S. Roberts. Crimson, mauve, and violet	Medium	Nov. 10
*Norma. Orchid pink petals with golden pink cushion	Medium	Nov. 10-Dec.
†*Noveltie. White throughout, with large cushion	Short	Nov. 15
*Orange Glow. Rich orange	Medium	Nov. 10
†Orchid Beauty. Orchid with golden cushion	Medium	Nov. 15
†*Pink Lady. Pink petals with light pink cushion	Short	Nov. 15
*Pink Supreme. Delicate shell pink petals, with cushions somewhat lighter	Tall	Nov. 30
†*Red Rolinda. Red. Sport of Rolinda	Medium	Nov. 20-Dec. 1
†*Rolinda. Orange bronze	Medium	Nov. 20-Dec. 1
*Rose Madder. Deep rose pink	Medium	Oct. 25
*Smith's Innocence. White	Tall	Nov. 5
*Stoplight. Terra Cotta petals with low yellow cushion	Medium	Nov. 5
†*Sunshine. Yellow	Short	Thanks.
*Susanne Miller. Yellow. Sport of Norma	Tall	Nov. 10-Dec. 1
*The Titan. Scarlet crimson with bronzy red cushion	Medium	Nov. 5
*Triumph. Golden bronze	Medium	Oct. 25
*Tuxedo. Pink	Medium	Nov. 10
*Western Star. Purple with cream colored cushion	Medium	Nov. 20
*White Anemone. White	Medium	Nov. 1
*White Berneita. White	Medium	Nov. 1
†*White Izola. White. Sport of Izola	Medium	Nov. 1
*White Norma. White	Medium	Nov. 1
Yellow Blanche. Yellow. Sport of Blanche	Medium	Oct. 27
Yellow Garza Supreme. Yellow	Short	Dec. 1
†*Yellow Rolinda. Deep golden yellow. Sport of Rolinda	Medium	Nov. 20-Dec. 1

*—Good disbudded.

†—Good as pot plants.

\$2.00 per dozen; \$15.00 per 100

Single Varieties – Daisy Type

Name and Description	Height	Flowers
Absolute. Scarlet bronze with yellow center	Medium	Nov. 1
Aloma. Terra cotta bronze with yellow center	Medium	Oct. 15
†*Carnelia. Red	Short	Nov. 30
Charter Oak. Yellow	Tall	Nov. 25
Christmas Cheer. Scarlet. Sport of Mrs. E. D. Godfrey.....	Tall	Thanks.
Dawn. (Hasegawa). Chestnut bronze	Tall	Dec. 10-25
Elizabeth Firestone. Pink	Medium	Nov. 15 & Later
Elizabeth McDowell. Bronze	Medium	Nov. 15
Golden Gleam. Yellow	Tall	Nov. 20
Golden Mensa. Yellow	Medium	Nov. 10
Gretchen Piper. Yellow	Medium	Oct. 25
Hasegwa Josephine. Bronze	Tall	Dec. 5-20
Hasegawa Minoru. Rusty bronze	Tall	Dec. 5-20
Hasegwa Pink. Pink with golden center	Medium	Nov. 15-25
Hasegawa Poinsettia. Poinsettia red	Tall	Thanks.
Helen Hubbard. Red	Medium	Thanks.
†Ida Skiff. Bronze	Short	Nov. 1
*Joan Piper. Amber bronze	Medium	Oct. 10
Lady Astor. Bright crimson	Medium	Thanks.
Lighthouse. Bronze shading to watermelon red	Medium	Nov. 1-15
†Mabel Seymour. White	Medium	Nov. 5
Margaret Waite. Cerise pink. Sport of Mrs. E. D. Godfrey	Tall	Thanks.
Masons Bronze. Burnt orange	Medium	Nov. 5
†*Melba. Reddish bronze	Medium	Nov. 5
Miss Isabelle. Bronze	Tall	Thanks.
Mrs. Darling. Red	Medium	Nov. 1
Mrs. E. D. Godfrey. Light pink	Tall	Thanks.
Radiant. Bright red	Medium	Nov. 5-10
†*Red Melba. Red	Medium	Nov. 5
*Red Rover. Crimson orange	Medium	Nov. 5
Rich Red. Red	Medium	Nov. 10
Robert Bacon. Bronzy gold tipped with red	Medium	Thanks.
Ruth Adams. Bronze	Tall	Nov. 5
†Sunburst. Sunburst orange	Medium	Nov. 25
Sunny Boy. Yellow	Medium	Nov. 15
Sunset. Yellow	Medium	Dec. 10-25
†Tagoya. Brilliant goya red	Short	Nov. 1- 5
†Thanksgiving Bronze. Dark bronze	Medium	Thanks.
*Valencia. Orchid pink	Tall	Nov. 30
White Godfrey. White	Tall	Thanks.
White Mensa. White	Medium	Thanks.
Woburn. Pink	Tall	Nov. 15
Yellow Godfrey. Yellow	Tall	Thanks.

*—Good disbudded.

†—Good as pot plants.

\$2.00 per dozen; \$15.00 per 100

PIPER'S CASCADE CHRYSANTHEMUMS

CULTURAL NOTES

The Cascade Chrysanthemums are becoming the favored queen of Autumn flowers. A few words on the culture of these beautiful flowers, which may be obtained from seeds.

It is very easily grown, and makes a wonderful subject for cutting and pot work, either as a bush-plant or, as the name suggests, for decorating, falling as it does in cascades of beautiful flowers.

In preparing the soil for seeds, which should be sown in February or March, equal parts of garden soil, leafmold, and sharp sand makes an admirable mixture. It is sufficiently porous, so that the seedlings will grow freely.

Fill pans or pots within three-quarters of an inch of the top, using broken crocks or ashes to insure correct drainage, sifting the soil to make an even surface for sowing the seed. Water the receptacles, and allow to stand for one day, then sow the seeds and cover lightly.

When seedlings show the fourth leaf, prick out into small pots, using any good fresh soil, the following mixture preferable: one part loam, one-quarter part rotted manure, one-sixteenth part sand. As plants continue to grow, increase the size of the pots, and also add to the above mixture one-fiftieth part of bone meal.

To obtain upright specimen pot plants, the young plants (when about four inches tall) should be pinched back until the second week in July, to furnish a well-shaped plant.

For the cascade specimens, the young plants must be kept tied down to a stick placed in the pot at an angle of 45 degrees, and the point of the stick to point to the North until the middle of August. All laterals are kept pinched back, and when the buds are perfectly formed the stick is removed and the plant allowed to hang over the side of the pot. After this time the growths are faced to the South. This will insure perfect raceme of flowers.

CASCADE VARIETIES

Anna Pure White Single.....	November	1
Brown Button Bronze Pompon.....	November	10
Jane Harte Yellow Single.....	November	1
Shooting Star Yellow Anemone Small.....	November	10
Bronze Single	November	1
Pink Single	November	1
Red Single	November	1

\$2.50 per dozen, \$15.00 per 100.

Hardy Early Flowering

Large Double or Decorative Garden Chrysanthemums

Abundance. A wonderful new salmon-red with golden reverse. Exceptionally free flowering, compact plant.

Amelia. (Pink Cushion). Very compact and early. Free-flowering light rose. Should be kept pruned back until early August for best results.

Barbara Cumming. Deservedly popular deep yellow. Very early and persistent.

Chestnut Burr. Deep chestnut red. Resembles a chestnut burr in size and color. Very dependable.

Comoleta. An old reliable yellow.

Ganna. Large free deep bright pink.

Globe d'Or. A reliable sort of dwarf compact growth producing an abundance of medium-sized yellow flowers.

Glomero. Medium sized orange. Very profuse.

Glorietta. Very double ball-shaped light pink. Dwarf and free.

Golden Charm. One of our newest creations. Very double, deep yellow flowers completely covering the dwarf compact plant.

Granny Scoville. This is one of the very superior varieties. Large coral bronze flowers of excellent form.

Haldona. Beautiful apricot yellow of medium size.

Idolph. An old reliable very pale rose. The plant and flowers are not very large but extremely attractive.

La Somme. Very dependable early mauve-pink.

Lorelei. Double yellow of dwarf compact habit.

Lillian Doty. Large ball-shaped rose-covered sort. Very popular and reliable.

Mrs. H. E. Kidder. Large yellow incurved.

Muldoon. Large purplish amaranth.

Murillo. Large old rose.

Marie duPont. Very dwarf with large pure white flowers.

Natoma. Very bright pink. Dwarf and free.

Petite Louise. Large ragged rose-pink.

Ruth Cumming. Deep terra cotta. Free and vigorous

Sunkist. Exceedingly free-flowering bright orange. Dwarf.

Tasiva. Large free-flowering pure white of compact growth.

White Doty. Large ball-shaped white variety. Very popular.

Yellow Doty. Same form and habit as Lilian Doty and White Doty, but with deep bronzy yellow flowers.

TWO NEW AZALEAMUM CHRYSANTHEMUMS

- King Cushion.** Identical with Amelia excepting that the flowers are deep bronzy salmon with a suffusion of rose.
- Queen Cushion.** The same as above with pure white flowers.

RELIABLE SINGLE FLOWERING

- Cavalier.** Deep wine color.
- Cosmos.** Deep purplish carmine.
- Firebrand.** Brilliant scarlet. Semi-double.
- Grenadier.** Crimson-red with bronzy suffusion.
- Indian Maid.** Deep orange terra cotta.
- Innocence.** White Korean hybrid.
- Joan Piper.** Apricot Bronze.
- Lemonade.** Large lemon yellow duplex.
- Persia.** Deep rosy carmine. Semi-double.
- Princess.** Very large early white.
- Sensation.** Yellow with every petal tipped scarlet.
- Sunbright.** Bright pure single yellow.
- The Torch.** Orange-scarlet duplex; golden reverse.
- Warrior.** Crimson-maroon, golden reverse. Semidouble.

DOUBLE-FLOWERED AND BUTTON

- The varieties in this classification usually produce flowers less than 2 inches in diameter. They are appreciated for their daintiness in the garden and give wonderful cut flowers for table and house decoration.
- Adironda.** Early golden bronze.
- Captain R. H. Cook.** Tall deep rose.
- Cheerfulness.** Makes large plants of excellent form, covered with hundreds of small double yellow buttons.
- Cometo.** Large light pink pompon.
- Ethel.** Superb bronze button.
- Irene.** Compact dwarf plant with an abundance of small white button-shaped flowers.
- Iridescent.** Small deep lilac Aster-flowered. Free and very effective.
- Jean Treadway.** Popular small pink Aster-flowered.
- Judith Anderson.** A vigorous, variety producing great quantities of good-sized button-shaped golden yellow flowers.
- Model of Perfection.** Rather tall plants with small white buttons. Very reliable.
- Mrs. H. Harrison.** Small ball-shaped pink. A popular old-timer.
- Nio.** Small pink button. Very desirable.
- Opal.** Splendid small-sized double flowers of an opalescent coppery rose color changing to deep salmon flesh.
- Ouray.** Large bronze button of dazzling color.
- R. Marion Hatton.** Popular small yellow Aster-flowered.
- Rodell.** Good-sized pure yellow button. Dwarf and compact.
- Ruth.** Very strong wine colored small Aster.
- Ruth Hatton.** Early small creamy white Aster-flowered.

KOREAN VARIETIES

Aphrodite. Pink	Single
Apollo. Bronze red.....	Single
Ceres. Old gold.....	Single
Daphne. Pink.....	Single
Diana. Rose pink.....	Single
Hebe. Lavender pink.....	Single
Innocence. White.....	Single
Louise Schling. Bronze salmon.....	Single
Mars. Wine-red.....	Single
Mercury. Blend of old rose and salmon.....	Single
Orion. Canary yellow.....	Single
Pink Lustre. Orchid pink.....	Single
Romany. Reddish bronze.....	Double
Saturn. Bronze.....	Single
Venus. Pink.....	Single
Vulcan. Bronze crimson.....	Single

Any of the above, 2-inch pots. \$.35 each, \$2.50 per dozen, \$15.00 per 100

CHRYSANTHEMUM SEEDS

PIPER'S CASCADE MIXED

PIPER'S KOREAN HYBRIDS MIXED

PIPER'S HYBRID EARLY FLOWERING MIXED

1.00 per Packet

YANKEE-MUM MANURE

The Plant Food for the Grower

100 lb. bags	100 lbs.	Ton
Price	\$4.50	\$85.00

APPLICATION FOR CHRYSANTHEMUMS

Prepare the soil for potting by mixing into each bushel of soil about $\frac{3}{4}$ lb. of YANKEE-MUM MANURE. This ensures the plants thriving from the start.

ADEQUATE FEEDING of plants for best results is a necessity and top-dressings for this purpose should be at the rate of 7 to 10 lbs. of YANKEE-MUM MANURE for each 100 square feet.

PLANT NOVELTIES

DOUBLE BEGONIA

PIPER'S RED BEAUTY. The new double Red Begonia. One of the season's most sensational semper-flouren type. The coral red flowers are carried in graceful clusters of 6 to 8 and blooms continuously. A well flowered plant may be had in a three-inch pot. By keeping the buds picked off it can be grown to a six-inch size. Awarded An Award of Commendation by The Horticultural Society of New York, October, 1937.

\$.50 per plant; \$5.00 per dozen

MARGUERITE

PIPER'S IMPROVED YELLOW. A much improved type. The individual flowers measure from 2 to $2\frac{1}{2}$ inches—borne on stems measuring from 12 to 15 inches long.

Blooms continuously during the Winter months, if grown in pots.

Plants from $2\frac{1}{2}$ inch pots—25 cents each.

AZALEA

SNOW WHITE. Large, pure white, flowers. Evergreen foliage of a deep green.

\$2.50 each for the small plants

\$5.00 each for the large plants

SPIRAEA

FLAME. Lovely shade of red. Very useful for forcing at Christmas time.

\$1.00 per plant

\$10.00 per dozen plants

CHRYSANTHEMUMS

CULTURAL NOTES

May I present a few helpful notes regarding the culture of Chrysanthemums. On receiving plants from the nursery special care should be taken for a few days until they become established in the pots or new location.

SUMMER PRUNING OR STOPPING

When the plant shows signs of becoming established in the new position, the growing tip should be removed, to induce branching. Generally, it is advisable to pinch out the top of the shoot after three or four pairs of leaves have formed, but in the writer's garden experience even better results may be had by removing the tip after the second pair of leaves is mature. Three to five shoots will appear, which, in turn, should be stopped, to induce branching.

The importance of this can not be overestimated. Only too often the garden chrysanthemums grown in small places are great sprawling plants, almost like shrubby climbers, which yield crooked stalks for cutting. A little experience will enable one to decide the best number of stoppings for each variety, as some branch freely with one or two stoppings, while others must be checked repeatedly. No pinching out should be done after the middle of July, as this might bring the bloom too far into the autumn. Under this treatment plants will usually form broad, spreading bushes with erect, upright branches strong enough to bear the large flowers coming later.

FERTILIZING

From about the time of the last stopping, extra feeding can be given to advantage. As midsummer is also the time of greatest heat, extra water should be given if the soil is at all likely to dry out, and the surface should be thoroughly hoed, to insure a thick mulch. The soil should be watered before the fertilizers are applied. This extra feeding is often omitted for the garden varieties, but usually is more than worth the trouble. In any case it should be stopped by the time the color commences to show in the flower buds.

STAKING

The period of midsummer growth is especially important after the last stopping of growth has been made, for it is during this time that stakes should be driven beside those plants which grow so tall that their stems will not support them. A stake early in the summer will insure the erect growth of the flowering shoots, an item of no small importance when the blooms are cut.

DISBUDDING

The first bud produced by a chrysanthemum is called a "crown" bud. On the large-flowered varieties this is the bud which usually will produce the largest bloom. Almost as soon as it appears, branches grow from the axils of the topmost leaves. If the crown bud is to be saved, those must be removed at once. When they are removed, all the strength of the plant rises to the crown bud, giving it a great development. If it is not to be saved, and indeed in most of the garden varieties known to the writer it is often abortive, the shoots near it should remain. If a single flower is wanted, save but one; if many flowers are wanted, all should be kept. Each will develop and produce terminal buds in clusters of from three to six or seven. If the strongest one of these is saved, it will produce a large flower, but for garden decoration more should be saved, producing "sprays" of bloom.

The desirability of disbudding varieties of hardy chrysanthemums is largely a matter of personal taste. The writer prefers not to disbud any of the outdoor plants except some of the early-flowering commercial varieties of Chinese and Japanese sorts and members of the groups known in the trade as decorative and early-flowering chrysanthemums. The former are greatly helped by disbudding, and the latter produce moderate-sized flowers of great beauty, both in the garden and for cutting.

SHELTERS

By the time of flowering the season will have advanced until there is a danger of frost. Chrysanthemum plants are quite frost hardy, but the half-open flowers, especially of white and pink varieties, are badly damaged. A certain amount of danger can be overcome by choosing portions of the garden where frosts do the least damage. The matter of artificial protection each person must decide for himself. Unquestionably it requires considerable labor to prepare temporary shelter of any kind. Most commonly a frame is built over the bed on which hotbed sash can be laid for roofing and the sides covered with burlap or similar material. It is to be hoped that in time a strain of early-flowering plants will be found. Those who are willing to make shelters for varieties which bloom too late to escape frosts have devised various temporary shelters of cloth or sash which give fairly adequate protection.

VARIETIES

The choice of varieties for the garden is a difficult matter, because each person has a personal preference to be considered. In addition the chrysanthemum, having become a flower of the specialist, is exhibited in dozens of new forms each year, some of which survive the test of distribution, while others are dropped after one season, thus making the chosen list of any date more or less useless after a very few seasons.

TYPES OF BLOOMS

Certain types of blooms should be known to all growers and gardeners, the final choice of varieties from these being safely left to the individual.

The early flowering and decorative varieties are not so much grown by amateur gardeners as they well might be. They flower as freely as the pompon varieties and produce blooms of considerable size and a delightful range of shapes and colors.

With the early-flowering sorts should be grown some of the anemone flowered varieties. They are delightful chrysanthemums, much like single or semidouble ones, except that the florets of the yellow disks develop a more petal-like substance. All are likely to be rather late flowering and should be given a sheltered location.

The single varieties however are beautiful flowers for the home gardener and in the opinion of the writer are the very best for cut flowers for the home as well as for garden decorations. Their number is legion, and the variations of color, form, and degree of singleness are so many that an extensive collection might well include only single sorts.

INSECT ENEMIES

The aphid in its several forms, black, green, and red, finds the chrysanthemums a favorite feeding place, and the careful gardener must be constantly prepared to apply contact insecticides to prevent the aphids from multiplying to such numbers that the plants are checked in their development. Two thorough applications will check each attack, one killing the larger part of the infestation and the second catching any which escaped the first application.

The aphids may often be knocked off by a strong stream of water from a hose where available, and this treatment, frequently given, is often all that is necessary to keep them in check.

Additional information regarding Chrysanthemums will be given upon request.

SHADING TO ADVANCE THE FLOWERING SEASON

Methods of applying shade vary with most growers. It depends on the material on hand and the location of the beds. While black sateen cloth is most widely used, it is by no means the only suitable material.

With new cloth that produces a maximum shade, roll the cloth over them at 6 P. M., leaving it until 7 A. M., following morning. With large mums, a few days over three weeks is ordinarily required to set buds, after which, discontinue shading. With the pompons, the shading must be continued after the first or center bud is set. This is necessary to get the side buds set, and usually calls for ten days or 2 weeks longer shading. On October pompons, around 60 days can be safely figured from the start or shading to cutting of crop. November varieties will run a week or 10 days over this. Big mums will cover about the same time from shading to cutting, the varieties vary in this class.

TO RETARD FLOWERING

This is done thru prolonging daylight with electric lights as already suggested. For mid-season kind, turn on lights about August 20. For December varieties, start a week later. Do not start later, or finished stock will tend to have long necks and some times, malformed flowers. Use 40 Watt bulbs with reflectors. Space lights 5 feet and high enough to spread the light well over the bed. Turn lights on when darkness is reached and for 3 hours daily. Continue the lighting for three-fourths as many days as it is wished to delay flowering: in other words, if you wish to defer flowering 20 days, keep the lights on them 15 days. It is not considered practical to delay flowering more than 3 or 4 weeks. Take first bud showing after light treatment stops. While the behavior of varieties varies under this treatment, success with the above suggestions has been fairly uniform.

J. FRED PIPER.

CARNATIONS



Before recommending new carnations I make sure of their commercial merit and see them growing several times. I consider the keeping and shipping qualities of new carnations most important. They must be free flowering with good stems and clean healthy growers.

When interested in new varieties write me and I will gladly give you my candid opinion.

CARNATION INTRODUCTIONS

ROSALIE. From the same seed parent which produced Patrician and Pink Treasure we now offer "Rosalie" which we predict will meet with public favor as have its two half-sisters.

The color is a bright shade of medium pink slightly deeper and brighter than Betty Lou.

In size it compares with Patrician, King Cardinal and others of that class.

The growth and flower production are very free making fine plants in the field or under indoor culture.

OLIVETTE. A pure white seedling of which we are justly proud. It is one of the loveliest formed carnations we have ever seen. The bloom measures about three inches across, is perfectly symmetrical and compact and has a high, full center. It is shaped like a ball that has been cut in two. The petals are serrated, and never at any time show the slightest trace of discoloration. The fragrance of the flowers is exquisite. One unusual feature of this variety is that the long, broad calyx has six prongs instead of the usual five, and although the bloom is very full, the calyx is almost never known to split. Production is high and uniform. The stem is of good length and is strong. The flowers are remarkable keepers and shippers. The first flowers in the Fall from this variety are the finest of any variety of any color with which we are familiar. The invariable response of those who see OLIVETTE for the first time is: "It is beautiful, simply beautiful."

PHAROAH. This unusual novelty seedling is in a class by itself. The only carnation we know of having a similar coloring is Sagamore. PHAROAH, however, is about four times the size of Sagamore. The petals are a bright orange, and the tips of each petal are fringed with red. There are no pencilings. The bloom measures from 3½ to 4½ inches across and is full and well formed. The petals are fringed. Although this is an extraordinarily large flower, the percentage of splits is a fraction of one percent. The plants are very large and bushy, the foliage is broad, the stems are long and hold the large flowers erect, production is above average and the flowers are fine keepers.

MRS. C. B. JOHNSON (Seedling) Cross Virginia and Patrician. Color, a lovely light salmon pink; very large double flowers; strong stem, clean healthy grower, free flowering, wonderful keeper, and no splits.

VIRGINA ROSE (Sport). Color—a more pleasing shade of Medium-pink than C. W. Ward; a fuller flower than Virginia, and it has all the good qualities of Virginia—fine stem, no splits and free flowering.

LOCHINVAR. Very striking. Color Garnet with orchid color edge. A clean strong grower, fine stem, free flowering, flowers 3½ to 4 inches in diameter. We recommend it.

YELLOW GOLD. There is a persistent demand for a clear yellow carnation. In Yellow Gold we have a variety with a clear golden yellow color without markings. It has good average sized blooms carried on strong stems. Patent applied for.

REMEMBRANCE. This variety comes from the hybridizer of Chief Kokomo. Its pleasing orchid shade lends itself admirably where delicate coloring is desired. The flower is about three inches in diameter, borne on good stems and keeps fine. Grows rapidly and blooms very freely. Patent applied for.

ROYAL PURPLE. The maroons have come into their own as a boutonier flower for evening dress. It has good size, good form, a perfect calyx, good stem and a pleasing purple maroon color that holds its velvety lustre. It makes fine plants and blooms early and freely. Patent applied for.

Prices for the above: \$4.50 per dozen; \$30 per 100:

	Dozen	100
New Carnation Gardenia , Giant pure white, wonderful keeper. Free flowering for its size Very fragrant. We recommend it. No patent.....	\$6.00	\$40.00
Delicacy , A charming white variegated which, we believe, is the finest in its color class you have been privileged to purchase for many years. Blooms are about 3 inches in diameter, are perfectly symmetrical and have very full, high centers. The variegation is dark pink and produces a lovely effect. The stems are strong and straight	3.00	25.00
Barbara Brigham . A lovely orange variegated sport of Golden Wonder. A very attractive color. Has the characteristics of the parent plant.....	2.50	18.00
Every cutting sold by us is guaranteed to be clean, vigorous and well rooted. We will gladly replace any stock received from us which is not satisfactory upon arrival.		

ENGLISH VARIETIES

- LEILA.** Flowers of medium size, heavily fringed, of a cattaleya-mauve color; very free flowering.
- OLIVE.** Medium size flowers, white ground, picoteed and striped with crimson, free flowering.
- EVA.** Large white variety of great merit. Awarded the Daily Mail Cup for the best scented Carnation.
- SALMON LADDIE.** Sport of Laddie, like its parent except in color, which is Salmon rose. Indispensable when flowers of the very highest quality are required. Quite distinct from any of the Laddie Sports.
- SUSIE.** A valuable addition to the mauve shades. Flowers 3 inches and over in diameter. Fringed, good shape; lasting qualities excellent. Vigorous growth and free flowering.
- LAURA.** Flowers of medium size, ground color yellow, striped with scarlet, pink and white; a very pretty combination of colors. An exceptional free flowering variety.
- WHITE DAIRYMAID.** A Sport of Dairymaid, like its parent in every respect except in color. The flowers are large, pure white at all seasons of the year. We believe this variety will become one of the best commercial white Carnations grown. Very free flowering. Strong calyx.

All of the above varieties \$3.50 each

DUCHESS OF GLOUCESTER

Selected by Her Royal Highness from a group of seedlings to bear her name. Heather or Neapolitan pink. The petals shine like plush and are most impressive under artificial light. The flowers are of medium size and attractively fringed. They are elegantly posed on long silvery stems, with a spicy fragrance. This variety is a prodigious grower with health and freedom, the hallmark of a good carnation.

Prices for rooted cuttings: \$3.50 each.

MARCHIONESS OF HEADFORT

Cream white melting into a ground color of rich red, of great substance. A most beautiful and impressive flower of the "Pelargonium" type, with a pleasing perfume. The growth is constitutionally perfect, absolutely reliable, with a substantial stem and vigorous growth.

Prices for rooted cuttings: \$3.50 each.

ALLWOODS CRIMSON

A deep crimson variety of considerable merit. The flowers are very large and are carried on tall stately stems. Perfect habit of growth and most easy to cultivate. Will be a consistent winner in the Crimson classes at all the shows.

Prices for rooted cuttings: \$3.50 each.

	Prices for rooted cuttings:		
	Each	Dozen	100
Achievement , A brilliant glowing Apricot		\$4.00	\$25.00
Doris Allwood , A soft salmon rose, heavily shaded French grey....	\$2.50	28.00	
Dimity , White variegated deep claret		3.00	18.00
Ditchling , A rich luminous shade of dark pink		3.00	18.00
Pelargonium , White ground, blocked or overlaid on each petal, crimson maroon		5.00	45.00
Purple Pelargonium , Rich claret tipped or paling to mauve at the edge	2.50	28.00	
Scarlet Pelargonium , Bright red edged creamy white.....	2.50	28.00	
Tangerine , A glorious shade of flame Apricot	2.50	28.00	
Wivelsfield Claret Improved , Claret colored		2.50	16.00
Wivelsfield Crimson , An intense velvety crimson		5.00	
Robert Allwood , Vivid Scarlet, wonderful Carnation in every way, and has won more honors than any red carnation ever introduced		2.50	16.00
Border Carnation , Grand old garden favorites. Choicest Mixed. 12 in. Many splendid colors. Blooms freely and continuously			25.00

SELECTED STOCK

				Per 100
Improved Giant Laddie	-	-		\$35.00
				Per 100
Giant Laddie	-	-	-	\$25.00

STANDARD VARIETIES

WHITE

Prices on unlisted varieties on request.

Patrician	per 100	\$14.00
Joan Marie	per 100	16.00
Improved Matchless	per 100	12.00
Puritan	per 100	18.00
Antarctic	per 100	18.00
Ocean Spray	per 100	12.00
Ethel	per 100	18.00
Snow White	per 100	18.00
White My Love	per 100	18.00

LIGHT PINK

Virginia	per 100	\$16.00
Peter Fisher	per 100	16.00
Laddie	per 100	20.00
Aida	per 100	18.00
Eleanor	per 100	18.00

DARK PINK

Kathryn	per 100	\$18.00
Pink Treasure	per 100	25.00
My Love	per 100	16.00
New Deal Ward	per 100	16.00
Boston Ward	per 100	16.00

RED

King Cardinal—Scarlet	per 100	\$18.00
Spectrum Supreme	per 100	12.00
Barbara Farr	per 100	18.00
Satellite	per 100	14.00
Scarlet Monarch	per 100	16.00
Woburn. (Maroon)	per 100	16.00
Johnsons Crimson	per 100	16.00

YELLOW

Golden Wonder	per 100	16.00
Maine Sunshine	per 100	\$16.00

VARIEGATED

Sagamore. Rich orange petals tipped with red	per 100	18.00
Chief Kokomo. Apricot, cerise penciling	per 100	\$18.00
Bonanza. Deep yellow, red variegation	per 100	15.00
Eldora. White, pink variegation	per 100	12.00
Mrs. Margaret Beuerlein. Large white, pink variegation	per 100	12.00
Opal. Purple on white	per 100	18.00

Rooted cuttings will be ready December. Orders will be filled in strict rotation.

CARNATION SEEDS

English Varieties	per pkt. \$1.00
Hardy English Varieties	per pkt. .50

CARNATION MANURE SPECIALLY PREPARED

25 Lb. Bag	\$5.00
56 Lb. Bag	\$7.50

CULTURAL NOTES ON CARNATIONS

In selecting the cuttings, try not only to perpetuate the good qualities of the variety but aim at improving them. Select them carefully. Some plants are superior to others—producing better color and form and are more healthy and vigorous.

The best time for propagation is during the month of January. Use the side shoots taken from the centre of the matured, flowering growth or the top cuttings, when plants are not allowed to bloom. The average cutting should be from 2½ to 3½ inches long and placed in a sand bed of about 4 inches of clean sand, keeping the temperature around 45 to 55 degrees. After an average time of about 30 days, there should be sufficient roots for transplanting. Use a fine compost of loam and sand. It is better to use a 2-inch pot—increasing the size of your pot as the plant grows. The fertility of your soil should also, be increased at each potting.

To insure a well shaped plant care should be taken in pinching back the plants so that they will break to conform with the size and season of flowering, as one may desire.

Carnation plants should be fed only when they are well rooted. The temperature is the most important factor in growing Carnations. I, personally, recommend, at all times, as near as possible, between 40 and 50 degrees. The temperature encourages strong healthy growth, good color and lasting qualities in your Carnation when cut.

The above is just a general synopsis of the culture. Anyone requiring any specific information regarding the varieties and further cultural notes, I will be pleased to furnish any assistance that I am able to give.

J. FRED PIPER.

HARDY PLANTS

NEW INTRODUCTIONS

We offer here a list of some of the very newest introductions in Perennials, also a list of the better varieties of recent introduction now available in large quantities.

These novelties are offered in field grown plants, except as noted. A few varieties are available in pot grown plants for Spring only.

	Each	Dozen
ASTER DWARF BLUE BOUQUET Dwarf. New. The best blue in the dwarf aster group. The yellow disc contrasting very attractively; height 15 in. Blooms early October.....	\$.50	\$5.00
ASTER DWARF BLUE BIRD A beautiful blue addition to the dwarf aster group; a color that was needed; medium blooming period; very good. 15 in.....	.50	5.00
ASTER DWARF "LILAC TIME" The compact rounded bushes with soft lilac blue flowers give a fine addition to the group of dwarf asters introduced in recent years. A very striking variety.	.30	3.00
ASTER DWARF NIOBE A very fine pure white; a true member of the dwarf group; compact bush completely covered with white flowers, with bright yellow centers.....	.30	3.00
ASTER FRIKARTI (Wonder of Stafa). Large, compact flowers, profuse bloomer. 30 in. bushy plant. August-October.....	.50	5.00
ASTER NOVAE-BELGI BEECHWOOD CHALLENGER New. The best of the red asters. Grows on a vigorous, sturdy, medium height bush about 4 ft. tall. The color is the clearest of all the reds and is much enhanced by bright yellow center disc. The foliage is clean and healthy, and the habit is upright but brshy; a fine novelty. Field grown. Potted Plants (April Delivery) .....	.75	7.50
ASTER NOVI-BELGI CHAS. WILSON A bright red which is getting many laudatory comments from test plantings thruout the country. An Advancement and Improvement on Aster Red Rover. 3 feet—good .....	.30	3.00
ASTER NOVI-BELGI COL. F. R. DURHAM New. Entire bush covered with double dark blue flowers; a healthy grower; long flowering period. 3½ ft. September-October.....	.50	5.00
ASTER NOVI-BELGI MOUNT EVEREST The finest and best white. It forms very tall, well shaped, pointed pyramids with an abundance of lateral growths, which flower right down to the ground. The flowers are large and a real jewel for the fall garden. 3-4 ft. September to frost.....	.30	3.00
ASTER NOVI-BELGI SILVER SHEEN Glistening large blue flowers with a silvery sheen. Three feet tall, disease resistant foliage. The Silvery blue color will be a welcome addition to the fall garden .....	.50	5.00
ASTER NOVI-BELGI SNOWBALL Pure white double flowers; 3 ft. Gives a very white effect and is an excellent variety.....	.50	5.00
ASTER SUNSET GLOW New. A bright glowing deep pink, giving the colors of the sunset after-glow; flowering in September, it is among the first fall asters to bloom. Height 3½ ft.; a fine addition .....	.50	5.00

	Each	Dozen
ASTER SUBCOERULEUS WARTBURG STAR Lavender blue with yellow center. A lovely blue daisy-like flower. Excellent for cutting. 12-15 in. May-June .....	.30	3.00
CHRYSANTHEMUM BRONZE CUSHION Another sport of Pink Cushion; flowers open deep bronze, fading to lighter bronze as they mature. A pleasing variation of shades of bronze as they open their buds .....	.30	3.00
CHRYSANTHEMUM QUEEN CUSHION (White Cushion). A white sport of Pink Cushion. An equally prolific bloomer. 18 in. high, flowering at the same time as Pink Cushion.....	.25	2.50
COREOPSIS GOLDEN GIANT A glorious new large flowered coreopsis. The flowers are four inches in diameter and perfect in form. The color is an outstanding true golden yellow.....	.25	
DELPHINIUM DOUBLE GIANT FLOWERED WHITE	1.50	15.00
DELPHINIUM PINK SENSATION The first clear pink delphinium. The plant is very vigorous, mildew free, and grows to a height of about 4 ft.	1.50	15.00
GYPHOPHILA ROSENSCHLEIER Dwarf. A real pink free flowering double Gypsophila. Flowers are the size of Bristol Fairy and it blooms continuously until frost.....	\$.40	\$4.00
HELENIUM CHIPPERSFIELD ORANGE Flowers in very large heads with orange splashed flame mahogany disk. Four feet tall. A good addition to the fall flowering family.....	.40	4.00
HEMEROCALLIS Gloriana, Large Clear Orange. June—3½ ft.....	2.00	20.00
HEMEROCALLIS Gypsy, Golden Yellow, medium flowers. July-Aug.—4½ ft.	1.00	10.00
HEMEROCALLIS Gold Imperial, Deep Yellow. July-Aug.—4½ ft.	1.00	10.00
HEMEROCALLIS Gold Standard, Rich Canary Yellow Large. July-Aug.—3 ft. ....	.75	7.50
HEMEROCALLIS Harvest Moon, Orange Sherbet. July 3 ft.....	1.00	10.00
HEMEROCALLIS Helen Campbell, Rich orange yellow. July-Aug. 4 ft.	2.00	20.00
PAPAVER NUDICAULE AMURENSIS YELLOW WONDER . Something new in Nudicaule poppies. Grows 3 feet tall. Color clear bright yellow with a lighter center. Flowers three to five inches across. Leaves with bluish cast. Blooms all summer.....	.50	5.00

	Each	Dozen
PAPAYER ORIENTALIS WUNDERKIND Enormous brilliant carmine pink flowers 8 to 10 inches across. An unusually healthy and vigorous poppy. Good foliage. All plants from cuttings.....	1.00	10.00
PAPAYER ORIENTALE FAIRY A pale pink poppy with blooms of medium size, showing in the border.....	.30	3.00
PAPAYER ORIENTALE PERRY'S WHITE Fine satiny white flowers with a crimson blotch at the base of each petal.....	.30	3.00
PHLOX DECUSSATA Evelyn, Salmon Rose.....	.30	3.00
PHLOX DECUSSATA Fiance, White .....	.30	3.00
PHLOX DECUSSATA P. D. Williams, Shell Pink.....	.30	3.00
PHLOX DECUSSATA The Queen, Early Orchid Pink.....	.30	3.00
PHLOX SUBLATA BLUE HILLS A much improved Lilacina. A strong plant covered with clean light blue flowers. Clean foliage all summer. May-June.....	.30	3.00
PHLOX SUBLATA ATROPURPUREA The best red sublata Phlox. Deep carmine red flowers. May-June.....	.25	2.50
PHLOX DAILY SKETCH Extra large trusses and individual flowers. Light salmon pink, with faint carmine eye. An outstanding Phlox—of recent introductions.....	.30	3.00

SHASTA DAISY, ESTHER REED.

The Everblooming Double Shasta.

The first truly double variety. Undoubtedly one of the finest introduced in recent years. An abundance of pure white flowers of good, lasting quality are borne on strong upright stems. The individual blooms measure 4 in. in diameter. The flowers appear continuously throughout the summer and fall. It grows about 18 in. high, makes a fine clump; blooms from June to October. Potted plants—Each \$1.00; Per 10, \$7.50.

	Each	Dozen
SHASTA DAISY CHIFFON (Chrys. Max.) A daintily frilled Shasta which grows about 18 in. tall. The flowers are formed by a double row of narrow petals frilled and flared at the edges. The center is a clear yellow. The flower is about 3 in. across. The general effect in the garden and in a vase is one of light airiness and pleasing daintiness.....	.40	4.00
SHASTA DAISY WHITE SWAN Clusters of pure double, pyrethrum-like flowers on strong stems. Ideal for cutting, late May-June; 2½ ft.; very free bloomer.....	.25	2.50

	Each	Doz.
TROLLIUS LEDEBOURI GOLDEN QUEEN Truly a queen of the Trollius. Blooms June and July. Rich golden flowers with orange stamens. Will grow in semi-shade. Three feet. A decided improvement on Trollius Ledebouri due to its larger petals and fuller flowers.....	.50	5.00
VERONICA BLUE SPIRE A new addition to the blue summer flowering Veronicas. It is a cross between Veronica Longifolia Subsessilis and Veronica Spicata. It has retained the dark foliage and the deep rich color of the Subsessilis with the bushy habit of the Spicata. Grows about 2 ft.....	.30	3.00
VERONICA SPICATA RUBRA (New). Similar to Spicata rosea. Dark rose, almost red colored spikes; very free flowering. August-October. 12 in.....	.50	5.00
BUDDLEIA (Butterfly Bush).		
CHARMING. A glorious shrub, bearing throughout the late summer and autumn elegant long sprays with lavender-pink blooms .....	.60	6.00
• Davidi magnifica (magnifica). Ox-eye Butterfly Bush. Violet-rose	.30	3.00
Davidi magnifica superba. Improved form of Magnifica. Flower spikes large. Very distinct with yellow eye and rose-violet color .....	.30	3.00
Farquhari. Dark lavender-pink, intense orange center; fragrant	.30	3.00
Ile de France. Richest and darkest of its race, the flowers of growing claret-purple packed into thick spikes a foot long..	.40	4.00

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Just dip in the powder and set in propagating bed. Better and more roots. Eliminates risk of overdosage. Cuttings ordinarily hard or impossible to root respond amazingly to **ROOTONE** treatment.

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GREENHOUSE PLANTS

	Doz.	100
Asparagus plumosus nanus. Graceful, climbing Asparagus; beautiful, feathery foliage....	\$2.00	\$15.00
Sprengeri. Fine for baskets.....	2.00	15.00
Begonia Lady Mac. A beautiful shade of pink.....	6.50	50.00
Marjorie Gibbs. Improved Lorraine.....	6.50	50.00
Melior. A more vigorous type of Lorraine.....	6.50	50.00
Bouvardia. Single pink or white.....	3.00	20.00
Buddleia asiatica. White.....	3.00	20.00
Farquhari. Pale pink.....	3.50	25.00
Calceolaria, Mixed hybrida grandiflora.....	4.00	25.00
Lymani. Cinnamon red.....	6.50	50.00
Medfordi. Velvety maroon.....	6.00	50.00
Stewarti. A bright yellow variety.....	6.00	50.00
Cineraria hybrida, 2¼-in. pots.....	1.00	15.00
Stellata, 2¼-in. pots.....	1.00	15.00
Cyclamen (Giant Flowering). Best strain.		
Pure White, 3-in. pots.....		35.00
White with Pink Eye, 3-in. pots.....		35.00
Pink, 3-in. pots.....		35.00
Salmon, 3-in. pots.....		35.00
Red, 3-in. pots.....		35.00
Diplacus glutinosus. An excellent greenhouse plant producing an abundance of orange or pale buff flowers. 3-in. pots.....	4.00	30.00
Erlangea tomentosa, 2¼-in. pots.....	4.00	30.00
Euphorbia jacquinaeflora, 2½-in. pots.....		30.00
Ferns:		
Adiantum cuneatum, 3-in. pots.....	5.00	40.00
Adiantum gloriosum, 3-in. pots.....	9.00	70.00
Adiantum gracillimum, 3-in. pots.....	5.00	40.00
Adiantum wrighti, 3-in. pots.....	7.00	60.00
Nephrolepis bostoniensis, 2¼-in. pots.....		15.00
Nephrolepis scotti, 2½-in. pots.....		15.00
Nephrolepis, Teddy, Jr., 2¼-in. pots.....		15.00
Nephrolepis, Verona, 3-in. pots.....	7.00	
Nephrolepis whitmani, 3-in. pots.....	7.00	
Small Ferns in variety, for Fern dishes, 2½-in. pots.....		12.00
Gardeina Veitchii, 2½-in. pots	3.50	25.00
Gerbera jamesoni Hybrids.....	10.00	75.00
Hydrangeas. May-June delivery. 2¼-in. pots.....	3.50	25.00
Blauer Prinz. Extra fine blue.		
Deutschland. One of the finest. Flowers large, deep pink overlaid with salmon.		
Gertrude Glahn. Deep rose pink, large flowers		
Giselher. Dark carmine red.		
Goliath. Rose pink. Extra strong grower.		
Launcelot. Light carmine, fringed petals.		
Le Pasteur. Large deep pink flowers		
Lorelei. Bright carmine.		
Marechal Foch. Deep carmine.		

	Doz.	100
Kalanchoe blossfeldiana, 2 1/4-in. pots.....	3.50	25.00
Marguerites, White, 3-in. pots.....		25.00
Boston Yellow, 3-in. pots.....		25.00
Orchids. Quotations given.		
Primula obconica grandiflora.....	2.50	15.00
Malacoides, American Legion. Large clear pink, yellow center.....	2.50	15.00
Malacoides, Superba. Delicate lilac. Free flowering.....	2.00	12.00
Smilax. A popular greenhouse climber.....	2.50	12.00
Stevia serrata. Dwarf or tall.....	2.50	15.00

POINSETTIA

	Doz.	100
Mrs. Paul Ecke. Recognized as the finest pot plant variety, 2 1/2-in. pot.....	3.50	25.00
White	3.50	25.00
Henriette Ecke. (Double).....	3.50	25.00
Oversized Oakleaf	3.50	25.00
Pink	3.50	25.00
Denmark. New, each 50c.....	6.50	40.00

SAINT PAULIA

	Doz.	100
Blue Boy, 2 1/2-in. pots.....	4.00	30.00
Admiral	4.00	30.00
Norseman	4.00	30.00
Palms. All varieties from 3-in. pots.		

Quotations On All Greenhouse Plants in Larger Sizes



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